

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2003-060649

(43)Date of publication of application : 28.02.2003

(51)Int.Cl. H04L 12/28  
H04J 3/06  
H04L 7/08  
H04L 27/00

(21)Application number : 2001-245945

(71)Applicant : NIPPON TELEGR & TELEPH CORP  
<NTT>

(22)Date of filing : 14.08.2001

(72)Inventor : HORI SATORU  
KIZAWA TAKESHI  
SAKATA TORU  
MORIKURA MASAHIRO

## (54) FREQUENCY CHANNEL DISCRIMINATING METHOD AND RECEIVER FOR WIRELESS PACKET COMMUNICATION

(57)Abstract:

PROBLEM TO BE SOLVED: To propose a frequency channel discriminating method for wireless packet communication capable of solving the problem that a wrong timing is detected due to a mirror signal of a preamble signal transmitted using a channel of an adjacent frequency.

SOLUTION: By this method, a symbol timing is detected on the basis of a correlational value between a short preamble signal transmitted in the head of a packet and a preamble signal for detecting a symbol timing prepared in a receiving station, and it is discriminated whether or not a packet being now in reception is a frequency channel used by the receiving station, on the basis of a correlational value between a long preamble signal transmitted continuously to the short preamble signal and the preamble signal for detecting a frequency channel prepared in the receiving station.

